

AMENDMENTS TO THE CLAIMS

Claims 1-20 (Cancelled).

21. (Currently Amended) A system for training firefighters to remain below a heat critical vertical boundary, the system comprising:

an emitter positioned at a fixed location and configured to establish the vertical boundary, wherein the emitter emits a signal in a single direction and is rotatable through 360° forming a substantially continuous signal at the vertical boundary that replicates a heat critical vertical boundary experienced by firefighters in a fire situation; and

a wearable sensor configured to emit an alarm signal responsive to its intrusion above the vertical boundary, the sensor positioned to face towards the emitter when the firefighter is in a crawling or prone position.

22. (Previously Presented) The system of claim 21, further comprising an adjustable vertical support to position the emitter at the vertical boundary.

23. (Previously Presented) The system of claim 21, further comprising redirecting elements spaced away from the emitter to receive a signal from the emitter and extend the height limit.

24. (Previously Presented) The system of claim 22, further comprising a second emitter configured to combine with the emitter to establish the height limit at the vertical boundary.

25. (Previously Presented) The system of claim 21, wherein the emitter establishes a 360° detection zone that forms the height limit.

26. (Previously Presented) The system of claim 21, wherein the emitter is an optical device that emits an optical beam.

27. (Previously Presented) The system of claim 21, wherein the sensor further includes a speaker to emit an audible sound responsive to intrusion above the height limit.

28. (Previously Presented) The system of claim 21, further comprising a remote control unit to remotely control a vertical position of the emitter to adjust the height limit.

29. (Currently Amended) A system for training firefighters to remain below a heat critical vertical boundary, the system comprising:

an emitter configured to establish a height limit, the emitter emitting a single signal;
a vertical support member adapted to position the emitter at a vertical position to establish the height limit at the vertical boundary; and
a wearable sensor configured to emit an alarm signal responsive to its intrusion above the vertical boundary, the sensor positioned to face towards the emitter when the firefighter is in a crawling or prone position;
wherein the emitter is adapted to turn 360° about the vertical support member to establish the vertical boundary around a 360° axis to replicate a heat critical vertical boundary to train firefighters.

30. (Cancelled)

31. (Previously Presented) The system of claim 29, further comprising an adjustment mechanism to selectively position the emitter at selected vertical positions.

32. (Previously Presented) The system of claim 31, wherein the adjustment mechanism is configured to selectively position the emitter at selected angular positions.

33. (Previously Presented) The system of claim 29, wherein the emitter further comprises a receiver that receives signals from a remote control unit to remotely adjust the position of the emitter on the vertical support member.

34. (Previously Presented) The system of claim 29, wherein the sensor further includes a speaker to emit an audible sound responsive to intrusion above the height limit.

35. (Currently Amended) A method for training firefighters to remain below a heat critical vertical boundary, the system comprising:
attaching an emitter that emits a signal in one direction to a vertical support member;
rotating the emitter through 360° about the vertical support member with the signal forming a substantially continuous signal at the vertical boundary to replicate a heat critical vertical boundary; and

providing a wearable sensor positioned to face towards the emitter when the firefighter is in a crawling or prone position, the sensor configured to emit an alarm signal responsive to its intrusion above the vertical boundary to indicate that the firefighter has moved to an unsafe position above the heat critical vertical boundary.

36. (Previously Presented) The method of 35, further comprising adjusting a vertical position of the height limit to different vertical boundaries.

37. (Previously Presented) The method of 35, wherein the step of defining the height limit at the vertical boundary comprises establishing the height limit at a constant level that is substantially parallel to a floor.

38. (Previously Presented) The method of 37, wherein the step of defining the height limit at the vertical boundary comprises establishing the height limit at an angle relative to the floor.

39. (Previously Presented) The method of 35, further comprising configuring the wearable sensor to emit an audible alarm signal responsive to its intrusion above the height limit.

40. (Previously Presented) The method of 35, further comprising configuring the wearable sensor to stop emitting the alarm signal when the sensor is positioned back below the height limit.